

EXHIBIT C



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Joe Manchin III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

July 01, 2009

WELL WORK PERMIT

Horizontal Well

This permit, API Well Number: 47-10302479, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

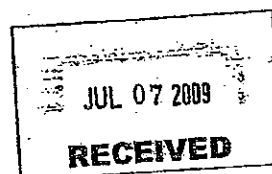
Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 831095
Farm Name: RINE, LARRY G.
API Well Number: 47-10302479
Permit Type: Horizontal Well
Date Issued: 07/01/2009

Promoting a healthy environment.



CHK00000029

WW-2B

API Well#: 047 103 -02479
State County Permit

State of West Virginia
Department of Environmental Protection, Office of Oil and Gas
Well Work Permit Application

- 1) Well Operator: Chesapeake Appalachia, L.L.C. 2) Operator ID #: 494477557
 3) Operator's Well #: 831095 Rine 1H 4) Elevation: 1341'
 5) County/District: 103-Wetzel / 1-Center 6) Quadrangle: 438 - LITTLETON
 7) Well Type: ☐ Oil ☒ Production ☐ Deep (More than 20 feet into Onondaga Group)
☒ Gas ☐ Storage ☒ Shallow (Less than 20 feet into Onondaga Group)
 8) Proposed Target Formation(s): Marcellus
 9) Proposed Total Depth: 7,197' TVD 12,848' MD
 10) Approximate fresh water depths: 350'
 11) Approximate coal seam depths: 900'-907', 1156'
 12) Approximate salt water depths: none
 13) Does land contain coal seams tributary to active mine? ☐ YES ☒ NO
 14) Describe proposed well work: Drill and stimulate any potential producing zones between the Big Injun and the Marcellus

15) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	Used For Drilling	Left in Well	Fill-Up (Cu. Ft.)
Conductor	20"	LS		40'	40'	
Fresh Water	13 3/8"	LS	54.5#	1250'	1250'	OK 1105 sks CTS
Intermediate	9 5/8"	J-55	40#	2710'	2710'	OKS 6-2-09 965 sks
Production	5 1/2"	P110	20#	12,848'	12,848'	As Needed
Tubing						

Check #: 1139577
 Amount: 650

Packers: Kind: _____
 Sizes: _____
 Depths Set: _____

RECEIVED
 Office of Oil & Gas
 JUN 15 2009
 WV Department of
 Environmental Protection

CHK00000030

CHK00000031

WW-2A

1) Date: June 05, 2009

2) Operator's Well #: Rine 1H

Operator's Well Name: Rine 1H

3) API Well #: 047 103 02479-H
State County Permit

State of West Virginia
Department of Environmental Protection, Office of Oil and Gas
Well Work Permit Application

4) Surface Owners to be served:

a) Name Larry G & Jana L Rine

Address 48 Virginia Oaks

City Moundsville State WV Zip Code 26041

b) Name

Address

City State Zip Code

6) Inspector:

Name David Scravage

Address Rt. 2 Box 11

City Lost Creek State WV Zip Code 26385

5)(a) Coal Operator:

Name

Address

City State Zip Code

b) Coal Owner with Out Declaration:

Name Consolidated Coal Company % Leatherwood, Inc.

Address 4000 Brownsville Road

City South Park State PA Zip Code 15129

c) Coal Lessee with Out Declaration:

Name McElroy Coal Company % Leatherwood, Inc.

Address 4000 Brownsville Road

City South Park State PA Zip Code 15129

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:☐ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas.**OR**☒ Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents on the above named parties by:

☐ Personal Service (Affidavit attached) ☒ Certified Mail (Postmarked postal receipt attached) ☐ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Chesapeake Appalachia, L.L.C.

Signed By: *Jal. Oden*

Its: Manager - Regulatory Compliance, Eastern Division

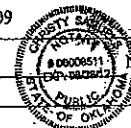
Address P.O. Box 18496

City Oklahoma City State OK Zip Code 73154-0496

Phone Number: 304-353-5000

Subscribed and sworn before me this 11 day of June, 2009

My Commission Expires: 8/28/12

Christy Samuels

Notary Public

RECEIVED
 Office of Oil & Gas
 JUN 15 2009
 WV Department of
 Environmental Protection

CHK00000032

WW-2A-1

Operator: Chesapeake Appalachia, L.L.C.

Operator's Well #: 831095 Rine 1H

Operator's Well Name: Rine 1H

API Well #: 047 103

State County Permit

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Vern Stansberry, et ux	Manufacturers Light and Heat Company	1/8	45A@173
Nancy Warmuth, et al	Chesapeake Appalachia, L.L.C.	1/8	327@524
J.N. Pyles	Manufacturers Light and Heat Company	1/8	45A@157

RECEIVED
Office of Oil & Gas

JUN 15 2009

WV Department of
Environmental Protection

Chesapeake Appalachia, L.L.C.	
Signed by (print):	Tal Oden
Its:	Manager - Regulatory Compliance, Eastern Division
Signature:	<i>Tal Oden</i>
Date:	6-11-09

CHK00000033

WW-2B-1

Operator: Chesapeake Appalachia, L.L.C.

Operator's Well #: 831095 Rine 1H

Operator's Well Name: Rine 1H

API Well #: 047 103 02479

State County Permit

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

☒ Contractor Name Sturm Environmental

☐ Well operator's private laboratory

Well Operator: Chesapeake Appalachia, L.L.C.

Address P.O. Box 6070

City Charleston

State WV

Zip Code 25362

Phone Number:

(304) 353-5000

RECEIVED
Office of Oil & Gas
JUN 15 2009
WV Department of
Environmental Protection

FOR OPERATOR'S USE ONLY: On an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

☒ No water wells or springs within 1000 feet.

☐ Water wells or springs are present within 1000 feet of the proposed location.

☐ See attached sheet for names and addresses of surface owners with water sources within 1000 feet.

CHK00000034

WW-9

Operator: Chesapeake Appalachia, L.L.C.Operator's Well #: 831095 Rine 1HOperator's Well Name: Rine 1HAPI Well #: 047 103 02479

State County Permit

West Virginia Department of Environmental Protection
Office of Oil and GasCONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

- 1) Well Operator: Chesapeake Appalachia, L.L.C. 2) Operator ID #: 494477557
- 3) Watershed: Little Laurel Run 4) Elevation: 1341'
- 5) County/District: 103-Wetzel / 7-Proctor 6) Quadrangle: 681 - WILEYVILLE
- 7) Description of anticipated Pit Waste: Drill water & various formation cuttings - cuttings will be buried
- 8) Will a synthetic liner be used in the pit? ☒ Yes ☐ No
- 9) Proposed Disposal Method for Treated Pit Waste:
- ☒ Land Application
- ☒ Underground Injection at UIC Permit Number: 2D0072539-2D0770102-2D0770110
- ☐ Reuse at API Number: _____
- ☐ Off Site Disposal (Supply form WW-9 for disposal location)
- ☒ Other (Explain): *Flowback fluids put in steel tanks & taken to permitted disposal facility
- 10) Proposed Work For Which Pit Will Be Used:
- ☒ Drilling ☐ Plugging ☐ Swabbing ☐ Workover
- ☐ Other (Explain): _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION CONTROL PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature: *Tal Oden*Company Official (Typed Name): Tal Oden

Company Official Title

Manager - Regulatory Compliance, Eastern Division

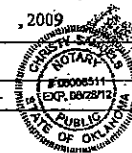
Subscribed and sworn before me this

11 day ofJune, 2009

My Commission Expires:

8/28/12

Notary Public

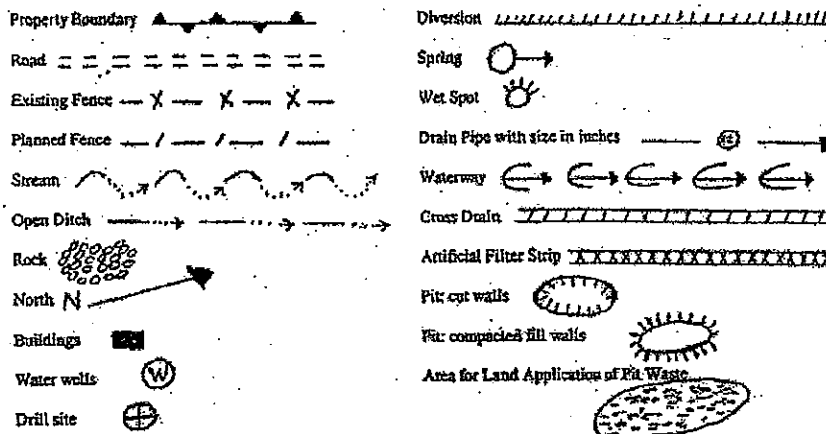


CHK00000035

WW-9 (Page 2)

API Well #: 047 103 02479
State County Permit

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 5 Provegetation pH: 6.0
 Lime Minimum 2 Tons/Acre as determined by PH Test Min. 7 Tons/acre Tons/acre or to correct to pH: 6.5 : Mulch Hay/straw Tons / Acre
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum) Pre Seed all open cut areas

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass	20	Kentucky Bluegrass	20
Red Top	15	Red Top	15
White Clover	15	White Clover	15

Attach to this form:
 Drawing(s) of road, location, pit and proposed area for land application.
 Photocepted section of involved 7.5' topographic sheet.

Plan Approved by:

Comments:

Title: Oil and Gas Inspector

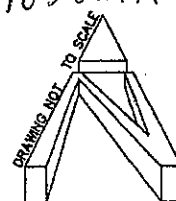
Date:

Field Reviewed: ☒ YES☐ NO

RECEIVED
 Office of Oil & Gas
 JUN 15 2009
 WV Department of
 Environmental Protection

CHK00000036

103-02479



TM 5 PAR 1
LARRY RINE
60 ACRES

PROPOSED WELL RING
SEE DETAIL SKETCH

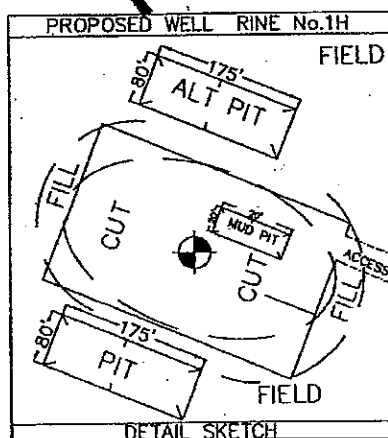
© OKS
6-7-09

360' @ 2-6% GRADE
270'-250' SPACING

TEMPORARILY SEED AND
MULCH ALL SLOPES UPON
CONSTRUCTION OF LOCATION.
ALL TREES 6-INCHES AND
ABOVE ARE TO BE CUT AND
STACKED. BRUSH SLASHINGS
ARE TO UTILIZED DOWN
SLOPE OF SITE AND
STRUCTURES TO ACT AS A
CONTROL BARRIER IF
AVAILABLE.



LAND SURVEYING, LLC.
795 W 2ND ST.
WESTON, WV 26452
(304) 269-5608 (304) 269-5621
andleright1@verizon.net



REFERENCE IS HEREBY MADE TO THE WY D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.

INSTALL CULVERTS AS SHOWN ON
RECLAMATION PLAN OR AS FIELD
CONDITIONS REQUIRE.

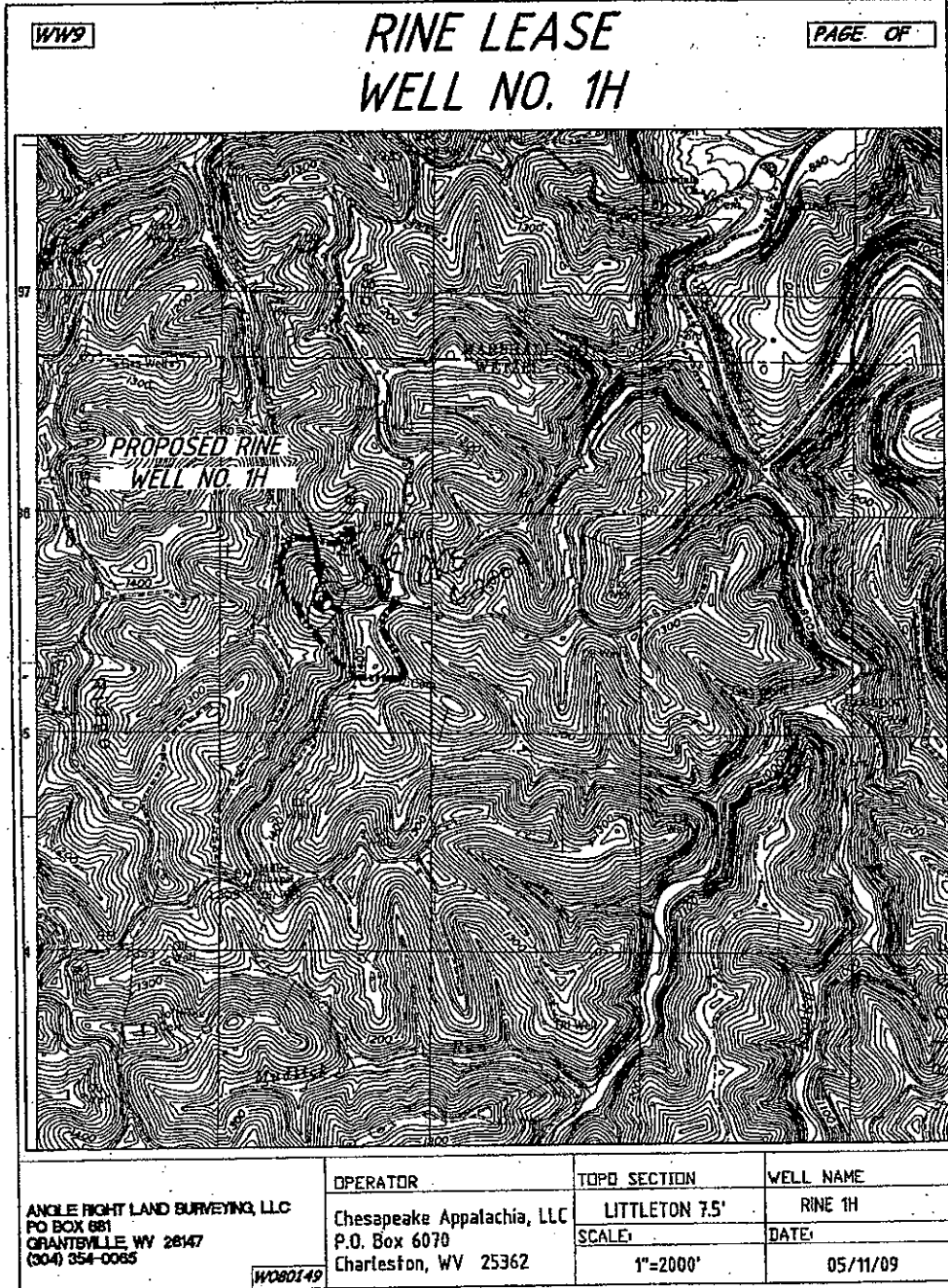
ENTRANCES ONTO PUBLIC ROADS
SHALL BE CONSTRUCTED OR
MAINTAINED IN ACCORDANCE WITH
WV D.O.C. REGULATIONS.
ADDITIONAL PERMITS MAY BE
REQUIRED.

DATE: 05-19-09

PROJECT NO: W080149

DRAWN BY: E.C.W.

103-02479-14



CHK00000038

CHK00000039



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Joe Manchin III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

July 01, 2009

WELL WORK PERMIT

Horizontal Well

This permit, API Well Number: 47-10302480, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 627391

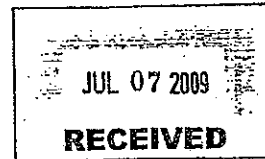
Farm Name: RINE, LARRY G.

API Well Number: 47-10302480

Permit Type: Horizontal Well

Date Issued: 07/01/2009

Promoting a healthy environment.



CHK00000040

WW-2B

API Well#: 047 103 - 02480
State County Permit

State of West Virginia
Department of Environmental Protection, Office of Oil and Gas
Well Work Permit Application

- 1) Well Operator: Chesapeake Appalachia, L.L.C. 2) Operator ID #: 494477557
- 3) Operator's Well #: 627391 Rine 3H 4) Elevation: 1341'
- 5) County/District: 103-Wetzel / 1-Center 6) Quadrangle: 438 - LITTLETON
- 7) Well Type: ☐ Oil ☒ Production ☐ Deep (More than 20 feet into Onondaga Group)
☒ Gas ☐ Storage ☒ Shallow (Less than 20 feet into Onondaga Group)
- 8) Proposed Target Formation(s): Marcellus
- 9) Proposed Total Depth: 7,204' TVD 12,082' MD
- 10) Approximate fresh water depths: 350'
- 11) Approximate coal seam depths: 900'-907', 1156'
- 12) Approximate salt water depths: none
- 13) Does land contain coal seams tributary to active mine? ☐ YES ☒ NO
- 14) Describe proposed well work: Drill and stimulate any potential producing zones between the Big Injun and the Marcellus

15) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	Used For Drilling	Left in Well	Fill-Up (Cu. Ft.)
Conductor	20"	LS		40'	40'	
Fresh Water	13 3/8"	LS	54.5#	1250'	1250'	1105 sks CTS
Intermediate	9 5/8"	J-55	40#	2710'	2710'	OKS 62-09 965 sks CTS
Production	5 1/2"	P110	20#	12,082'	12,082'	As Needed
Tubing						

Check #: 1139576
Amount: 650

Packers: Kind: _____
Sizes: _____
Depths Set: _____

RECEIVED
Office of Oil & Gas
JUN 15 2009
WV Department of
Environmental Protection

CHK00000041

WW-2A

1) Date: June 05, 2009

2) Operator's Well #: 627391 Rine 3H

Operator's Well Name: Rine 3H

3) API Well #: 047 103 02480-H
State County Permit

**State of West Virginia
Department of Environmental Protection, Office of Oil and Gas
Well Work Permit Application**

4) Surface Owners to be served:

a) Name Larry G & Jana L RineAddress 48 Virginia OaksCity Moundsville State WV Zip Code 26041

b) Name _____

Address _____

City _____ State _____ Zip Code _____

6) Inspector:

Name David ScranageAddress Rt 2 Box 11City Lost Creek State WV Zip Code 26385

5)(a) Coal Operator:

Name _____

Address _____

City _____ State _____ Zip Code _____

b) Coal Owner with Out Declaration:

Name Consolidated Coal Company % Leatherwood, Inc.Address 4000 Brownsville RoadCity South Park State PA Zip Code 15129

c) Coal Lessee with Out Declaration:

Name McElroy Coal Company % Leatherwood, Inc.Address 4000 Brownsville RoadCity South Park State PA Zip Code 15129**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**☐

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas.

OR☒

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents on the above named parties by:☐ Personal Service (Affidavit attached)☒ Certified Mail (Postmarked postal receipt attached)☐ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

RECEIVED

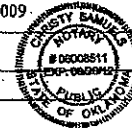
Office of Oil & Gas

JUN 15 2009

**WV Department of
Environmental Protection**

Well Operator: Chesapeake Appalachia, L.L.C.Signed By: [Signature]

Its: Manager - Regulatory Compliance, Eastern Division

Address P.O. Box 18496City Oklahoma City State OK Zip Code 73154-0496Phone Number: 405-935-4073Subscribed and sworn before me this 11th day of June, 2009My Commission Expires: 8/28/12Christy Semmels

Notary Public

CHK00000043

WW-2A-1

Operator: Chesapeake Appalachia, L.L.C.Operator's Well #: 627391 Rine 3HOperator's Well Name: Rine 3HAPI Well #: 047 103State 62480-11 County 103 Permit 62480-11

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Vern Stansberry, et ux	Manufacturers Light and Heat Company	1/8	45A@173
O.W. Yeater, et al	Manufacturers Light and Heat Company	1/8	47A@161
Nancy Warmuth, et ex	Chesapeake Appalachia, L.L.C.	1/8	327@524
J.N. Pyles, et ux	Manufacturers Light and Heat Company	1/8	45A@157

RECEIVED
Office of Oil & Gas
JUN 15 2009

West Virginia Department of
Environmental Protection

Chesapeake Appalachia, L.L.C.

Signed by (print): Tal OdenIts: Manager - Regulatory Compliance, Eastern DivisionSignature: Tal Oden

Date: _____

CHK00000044

WW-2B-I

Operator: Chesapeake Appalachia, L.L.C.Operator's Well #: 627391 Rine 3HOperator's Well Name: Rine 3HAPI Well #: 047 103 62480-HState County Permit

**West Virginia Department of Environmental Protection
Office of Oil and Gas**

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

☒ Contractor Name Sturm Environmental

☐ Well operator's private laboratory

Well Operator: Chesapeake Appalachia, L.L.C.

Address P.O. Box 6070

City Charleston

State WV

Zip Code 25362

Phone Number: (304) 353-5000

RECEIVED
Office of Oil & Gas
JUN 15 2009
WV Department of
Environmental Protection

FOR OPERATOR'S USE ONLY: On an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

☒ No water wells or springs within 1000 feet.

☐ Water wells or springs are present within 1000 feet of the proposed location.

☐ See attached sheet for names and addresses of surface owners with water sources within 1000 feet.

CHK00000045

WW-9

Operator: Chesapeake Appalachia, L.L.C.

Operator's Well #: 627391 Rine 3H

Operator's Well Name: Rine 3H

API Well #: 047 103 02480-14

State County Permit

West Virginia Department of Environmental Protection
Office of Oil and GasCONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

- 1) Well Operator: Chesapeake Appalachia, L.L.C. 2) Operator ID #: 494477557
- 3) Watershed: Little Laurel Run 4) Elevation: 1341'
- 5) County/District: 103-Wetzel / 1-Center 6) Quadrangle: 438 - LITTLETON
- 7) Description of anticipated Pit Waste: Drill water & various formation cuttings - cuttings will be buried
- 8) Will a synthetic liner be used in the pit? ☒ Yes ☐ No
- 9) Proposed Disposal Method for Treated Pit Waste:
- ☒ Land Application
 - ☒ Underground Injection at UIC Permit Number: 2D0072539-2D0770102-2D0770110
 - ☐ Reuse at API Number:
 - ☐ Off Site Disposal (Supply form WW-9 for disposal location)
 - ☒ Other (Explain): *Flowback fluids put in steel tanks & taken to permitted disposal facility
- 10) Proposed Work For Which Pit Will Be Used:
- ☒ Drilling ☐ Plugging ☐ Swabbing ☐ Workover
 - ☐ Other (Explain):

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION CONTROL PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

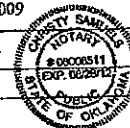
Company Official Signature: Tal Oden

Company Official (Typed Name): Tal Oden

Company Official Title: Manager - Regulatory Compliance, Eastern Division

Subscribed and sworn before me this 11th day of JuneMy Commission Expires: 8/28/12RECEIVED
Office of Oil & Gas

JUN 15 2009

WV Department of
Environmental Protection

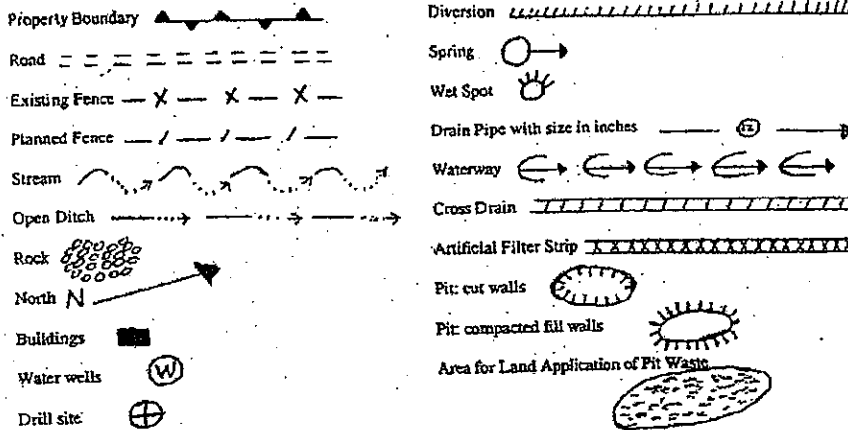
Notary Public

CHK00000046

WW-9 (Page 2)

API Well #: 047 103 02480-
State County Permit

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 5 Prevegetation pH: 6.0
 Lime Minimum 2 Tons/Acre as determined by PH Test Min. 2 Tons/acre Tons/acre or to correct to pH: 6.5 Malch and Preseed All slopes Hay/straw Tons / Acre
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum) Pre Seed all open cut areas

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass	20	Kentucky Bluegrass	20
Red Top	15	Red Top	15
White Clover	15	White Clover	15

Attach to this form:
 Drawing(s) of road, location, pit and proposed area for land application.
 Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

David X. Shrage

Comments:

Title: Oil and Gas Inspector

Date:

RECEIVED
 Office of Oil & Gas
 JUN 15 2009
 WV Department of
 Environmental Protection

Field Reviewed:

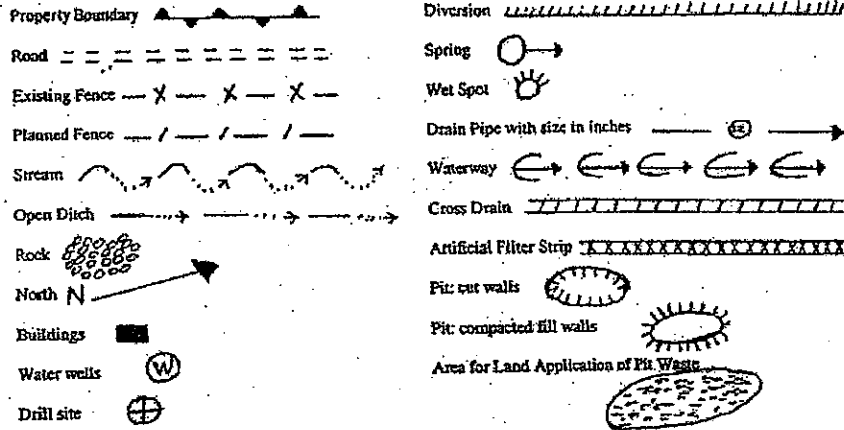
☒ YES☐ NO

CHK00000047

WW-9 (Page 2)

API Well #: 047 103 02480-1
State County Permit

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 5 Prevegetation pH: 6.0
 Lime Minimum 2 Tons/Acre as determined by PH Test Min. 2 Tons/Acre Tons/acre or to correct to pH: 6.5 : Mulch Hay/straw Tons / Acre
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum) Pre Seed all open cut areas

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass	20	Kentucky Bluegrass	20
Red Top	15	Red Top	15
White Clover	15	White Clover	15

Attach to this form:
 Drawing(s) of road, location, pit and proposed area for land application.
 Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Comments:

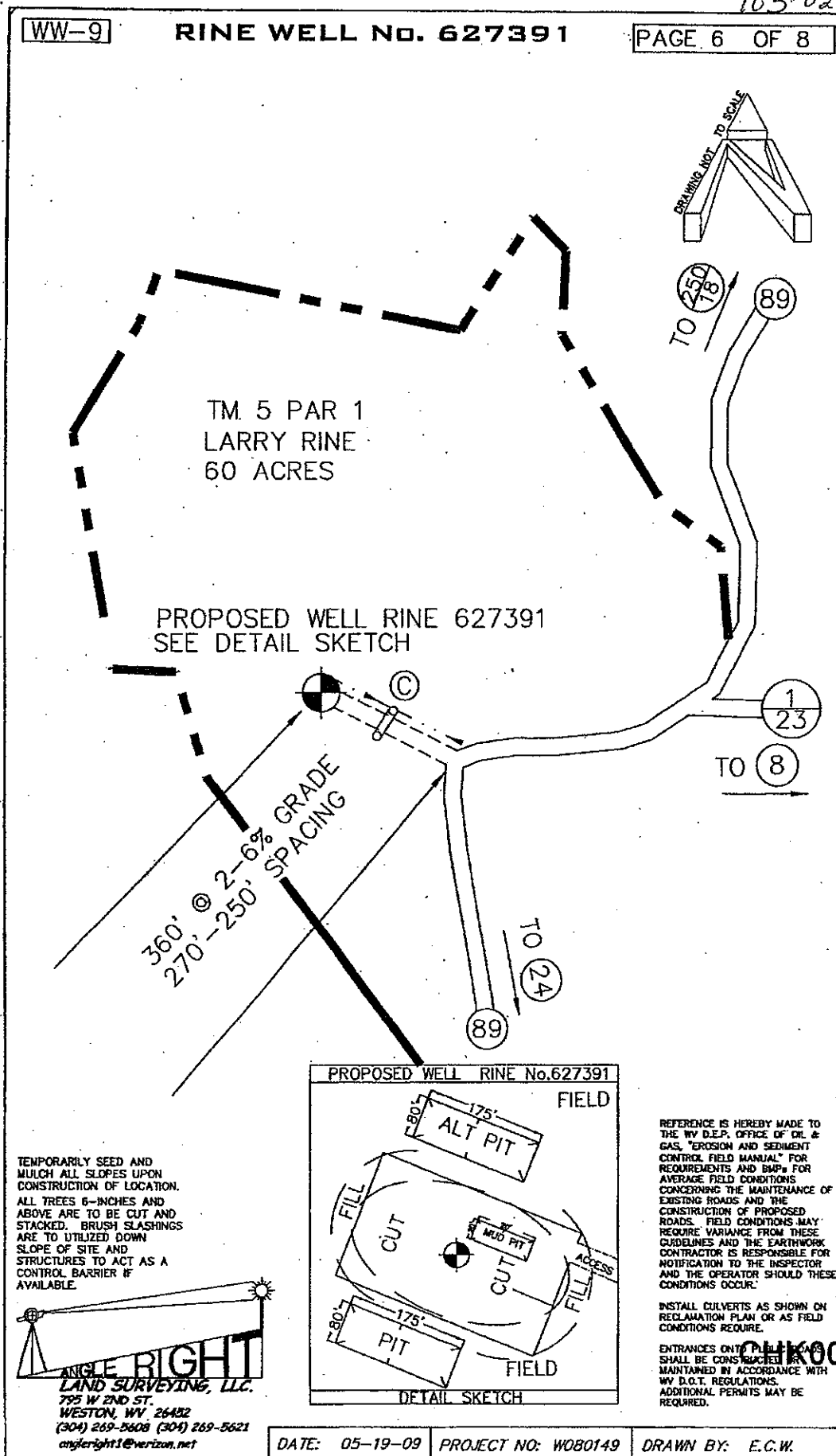
Title: Oil and Gas Inspector

Date:


Field Reviewed: ☒ YES ☐ NO

RECEIVED
 Office of Oil & Gas
 JUN 15 2009
 WV Department of
 Environmental Protection

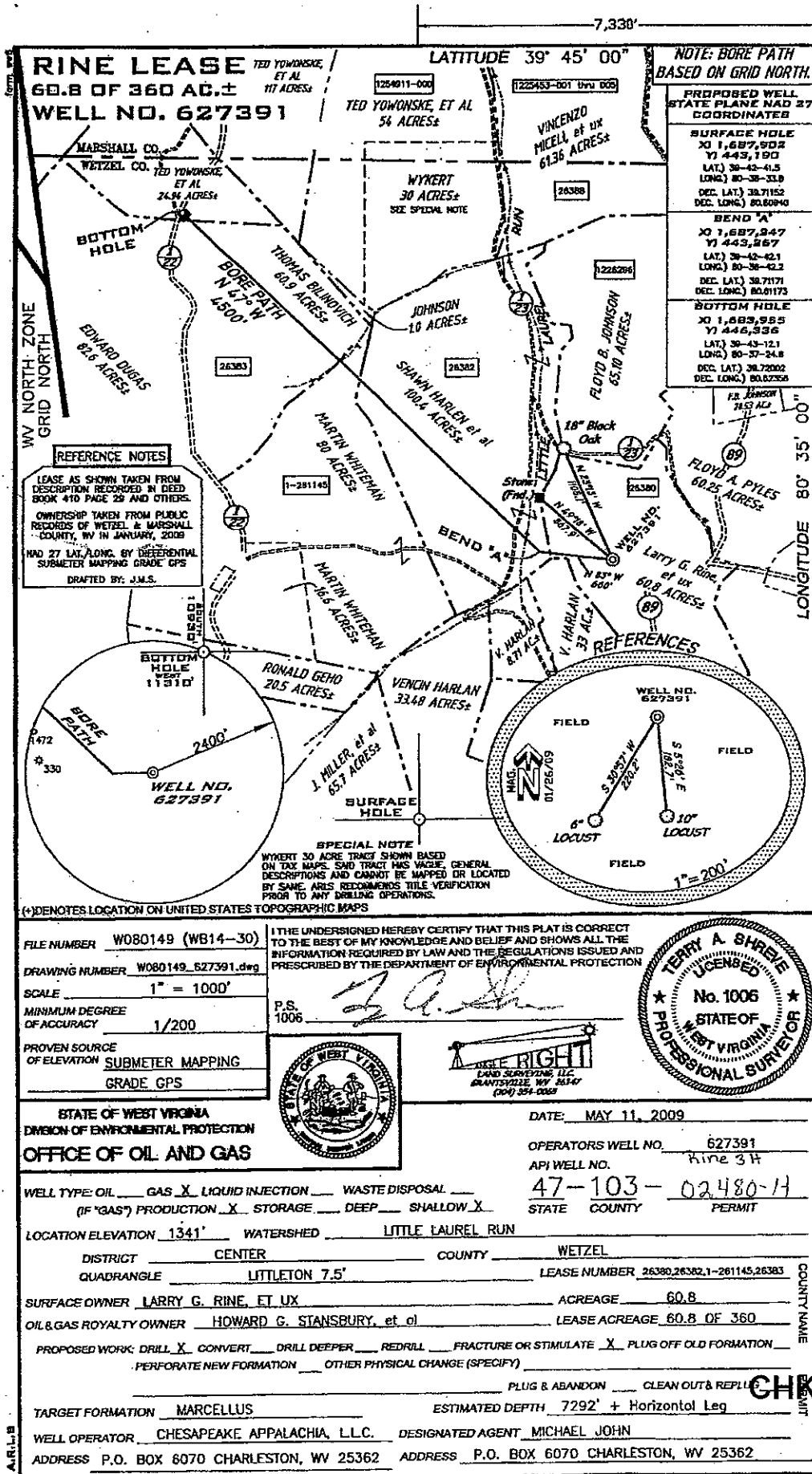
CHK00000048



103-02480-W

WWS		RINE LEASE		PAGE OF	
		WELL NO. 627391			
					
ANGLE RIGHT LAND SURVEYING, LLC PO BOX 681 GRANTSVILLE, WV 26147 (304) 854-0065 W080149		OPERATOR		TOPO SECTION	
		Chesapeake Appalachia, LLC		LITTLETON 7.5'	
		P.O. Box 6070		SCALE:	
		Charleston, WV 25362		1"=2000'	
				WELL NAME	
				RINE 627391	
				DATE:	
				05/11/09	

CHK00000050





west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Joe Manchin III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

July 01, 2009

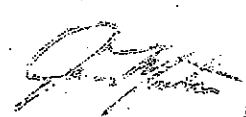
WELL WORK PERMIT

Horizontal Well

This permit, API Well Number: 47-10302481, issued to CHESAPEAKE APPALACHIA, L.L.C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

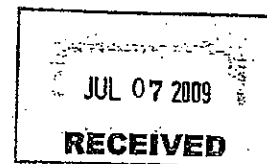
Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 627392
Farm Name: RINE, LARRY G.
API Well Number: 47-10302481
Permit Type: Horizontal Well
Date Issued: 07/01/2009
Promoting a healthy environment.



CHK00000052